

## Intention of purchase of – Programmable Optical Filter

### Specifications Required:

Operating wavelength : 1530 – 1560 nm  
Center frequency of the filter : Tunable across the wavelength range  
Filter Bandwidth : Tunable ; minimum of 10 GHz

Insertion Loss : < 1 dB  
Polarisation Dependent Loss : < 1 dB  
Return Loss : > 25 dB  
Filter Shape : Arbitrary  
Bandwidth setting resolution : < 1 GHz  
Center frequency accuracy : Better than +/-5 GHz

Attenuation control : 0-35 dB  
Resolution : 0.01 dB

Phase control :

Should be able to adjust the phase across the selected frequency

- to a constant value, which could be tuned between 0 to  $2\pi$
- as a linear phase with group delay control range -25 ps to +25 ps

Fiber coupled with FC/APC connectors.

Manufacturer should be able to provide customer references where the unit with the functionality of constant phase control is sold.